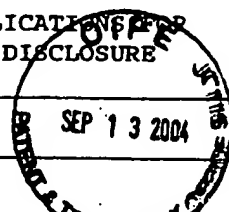


FORM PTO-1449 (Modified)		ATTY. DOCKET NO. 24729-0128	SERIAL NO. 09/808,898
LIST OF PATENTS AND PUBLICATIONS APPLICANT'S INFORMATION DISCLOSURE STATEMENT			
		APPLICANT BRYAN et al.	
		FILING DATE March 15, 2001	GROUP 1642

1) Art that concerns isolation/cloning of GFP-Luciferase proteins and genes.

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER								DATE	NAME	CLAS S	SUB CLAS S	FILING DATE
1 <i>swl</i>	A	4	5	8	1	3	3	5		4/8/86	Baldwin	435	172.3	12/1/82
1	B	4	9	6	8	6	1	3		11/6/90	Masuda et al.	435	172.3	07/26/88
1	C	5	0	9	3	2	4	0		3/3/92	Inouye et al.	435	69.1	10/8/87
1	D	5	0	9	8	8	2	8		3/24/92	Geiger et al.	435	7.72	10/24/86
1	E	5	1	3	9	9	3	7		8/18/92	Inouye et al.	435	69.1	11/18/88
1	F	5	1	6	2	2	2	7		11/10/92	Cormier	435	252.33	03/17/88
1	G	5	1	8	2	2	0	2		1/26/93	Kajiyama et al.	435	189	8/5/91
1	H	5	1	9	6	5	2	4		3/23/93	Gustafson et al.	536	23.2	01/06/89
1	I	5	2	1	9	7	3	7		6/15/93	Kajiyama et al.	435	69.1	3/26/91
1	J	5	2	2	9	2	8	5		7/20/93	Kajiyama et al.	435	189	6/23/92
1	K	5	2	9	2	6	5	8		3/8/94	Cormier et al.	435	252.33	6/17/93
1	L	5	3	3	0	9	0	6		7/19/94	Kajiyama et al.	435	189	06/15/93
1	M	5	3	5	2	5	9	8		10/4/94	Kajiyama et al.	435	189	8/29/91
1	N	5	3	6	0	7	2	8		11/1/94	Prasher	435	189	12/1/92
1	O	5	4	1	8	1	5	5		05/23/95	Cormier et al.	435	189	12/14/93
1	P	5	4	2	2	2	6	6		06/6/95	Cormier et al.	435	252.3	10/9/92
1	Q	5	6	0	4	1	2	3		02/18/97	Kazami et al.	435	189	06/15/94
1	R	5	6	2	5	0	4	8		4/29/97	Tsien et al.	536	23.4	11/10/94
1	S	5	7	4	1	6	6	8		04/21/98	Ward et al.	435	69.1	05/26/95
1	T	5	7	7	7	0	7	9		07/07/98	Tsien et al.	530	350	11/20/96
1	U	5	8	0	4	3	8	7		09/08/98	Cornack et al.	435	6	01/31/97
1 <i>swl</i>	V	5	8	7	4	3	0	4		02/23/99	Zolotukhin et al.	435	366	01/18/96

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER								DATE	COUNTRY	CLAS S	SUB CLAS S	Translation Yes No	
1 <i>swl</i>	W	0	2	2	6	9	7	9		7/1/87	EP A2				
1	X	0	3	8	7	3	5	5		9/19/90	EP A1				
1	Y	0	5	4	0	0	6	4		5/5/93	EP A1				
1	Z	3	0	3	0	6	7	8		2/8/91	JP				X*
1	AA	4	2	5	8	2	8	8		09/14/92	JP				X*
1	AB	6	3	3	1	7	0	7		12/26/88	JP				X*
1 <i>swl</i>	AC	7	2	2	2	5	9	0		08/22/95	JP				X*

EXAMINER *swl*

DATE CONSIDERED *4/5/05*

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FORM PTO-1449 (Modified)										ATTY. DOCKET NO. 24729-0128		SERIAL NO. 09/808,898	
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT										APPLICANT BRYAN et al.			
										FILING DATE March 15, 2001		GROUP 1642	
1 <i>swl</i>	AD	8	7	0	3	3	0	4	6/4/87	PCT			
1	AE	9	0	0	1	5	4	2	02/22/90	PCT			X*
1	AF	9	2	1	5	6	7	3	09/17/92	PCT			
1	AG	9	5	0	7	4	6	3	3/16/95	PCT			
1	AH	9	5	1	8	8	5	3	07/13/95	PCT			
1	AI	9	5	2	1	1	9	1	8/10/95	PCT			
1	AJ	9	5	2	5	7	9	8	9/28/95	PCT			
1	AK	9	6	2	3	8	1	0	08/08/96	PCT			
1	AL	9	6	2	7	6	7	5	09/12/96	PCT			
1	AM	9	7	2	6	3	3	3	07/24/97	OCT			
1 <i>swl</i>	AN	9	9	4	9	0	1	9	09/30/99	PCT			

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)		
1 <i>swl</i>	AO	Baldwin et al., Active Center Studies on Bacterial Luciferase: Modification of the Enzyme with 2,4-Dinitrofluorobenzene, <i>Biochemistry</i> 20:512-517 (1981).
1	AP	Baldwin et al., Cloning of the luciferase structural genes from <i>Vibrio harveyi</i> and expression of bioluminescence in <i>Escherichia coli</i> , <i>Biochemistry</i> 23: 3663-3667 (1984)
1	AQ	Belas et al., Bacterial bioluminescence: Isolation and expression of the luciferase genes from <i>Vibrio harveyi</i> , <i>Science</i> 218: 791-793 (1982)
1	AR	Blinks et al., Multiple forms of the calcium-sensitive bioluminescent protein aequorin, <i>Fed. Proc.</i> 1435: 474 (1975)
1	AS	Casper et al. Expression of the green fluorescent protein-encoding gene from a tobacco mosaic virus-based vector <i>Gene</i> 173: 69-73 (1996)
1	AT	Chalfie, Green fluorescent protein, <i>Photochemistry and Photobiology</i> , 62(4):651-656 (1995)
1	AU	Charbonneau et al., "Amino acid sequence of the calcium-dependent photoprotein aequorin," <i>Biochem.</i> 24:6762-6771 (1985)
1	AV	Chemical Abstract #115(5)43510b (citing, Japanese Patent Application No. JP 3-30678 Osaka)
1	AW	Cohn et al., Nucleotide Sequence of the <i>luxA</i> Gene of <i>Vibrio harveyi</i> and the Complete Amino Acid Sequence of the Subunit of Bacterial Luciferase, <i>J. Biol. Chem.</i> , 260(10): 6139-6146; (1985)
1	AX	Cohn et al. "Cloning of the <i>Vibrio harveyi</i> luciferase genes: use of a synthetic oligonucleotide probe", <i>Proc. Natl. Acad. Sci. U.S.A.</i> 80(1):102-123 (1983)
1	AY	Database Derwent # 007778737 WPI Acc. No. 89-043849/198906 (citing, Japanese Patent Application No. JP 63317079, published December 26, 1988)
1	AZ	Database Derwent #008196500 (citing WO 9001542, Recombinant luciferase; fragments from it, and gene coding for it - the luciferase having increased stability and quantum yield)
1	BA	Database Derwent #010423635 WPI Acc. No. 95-324955/199542 (citing, Japanese Patent Application No. JP 7222590, published August 22, 1995)
1	BB	Database Derwent #008580311 WPI Acc. No. 91-084343/199112 (citing, Japanese Patent Application No. JP 3030678 published February 8, 1991)
1	BC	Database EMBL Nucleotide and Protein Sequences, AC=AF025844, Co-reporter vector pRL-Null, complete sequence, abstract, (1997)
1	BD	Database Derwent #009227258 WPI Acc. No. 92-354680/199243 (citing, Japanese Patent Application No. JP 4258288, published September 14, 1993)
1 <i>swl</i>	BE	de Wet et al., "Cloning and expression of the firefly luciferase gene in mammalian cells," <i>Bioluminescence and Chemiluminescence. Basic Chemistry and Analytical Applications</i> ,

EXAMINER <i>SWL</i>	DATE CONSIDERED <i>4/8/05</i>
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPBP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

*** Indicates references provided herewith

FORM, PTO-1449 (Modified)		ATTY. DOCKET NO. 24729-0128	SERIAL NO. 09/808,898
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT		APPLICANT BRYAN et al.	
		FILING DATE March 15, 2001	GROUP 1642
		DeLuca et al., eds., pp. 368-371, Academic Press (1981)	
1 SWL	BF	de Wet et al., "Cloning firefly luciferase," <i>Meth. Enzymol.</i> 133:3-14 (1986)	
1	BG	de Wet et al., "Cloning of firefly luciferase cDNA and the expression of active luciferase in <i>Escherichia coli</i> ," <i>Proc. Natl. Acad. Sci. USA</i> 82:7870-7873 (1985)	
1	BH	Delagrave et al., Red-shifted excitation mutants of the green fluorescent protein, <i>Bio/Technology</i> 13(2):151-154 (1995)	
1	BI	Ehrig et al., Green-fluorescent protein mutants with altered fluorescence excitation spectra, <i>FEBS Letters</i> 367:163-166 (1995)	
1	BJ	Engbrecht et al., "Techniques for cloning and analyzing bioluminescence genes from marine bacteria," <i>Meth. Enzymol.</i> 133:83-99, 234 (1986)	
1	BK	Engbrecht et al., Bacterial bioluminescence: Isolation and genetic analysis of functions from <i>Vibrio fischeri</i> , <i>Cell</i> 32: 773-781 (1983)	
1	BL	Engbrecht et al., Identification of genes and gene products necessary for bacterial bioluminescence, <i>Proc. Natl. Acad. Sci. USA</i> 81: 4154-4158 (1984)	
1	BM	Frackman et al., "Cloning, organization, and expression of the bioluminescence genes of <i>Xenorhabdus luminescens</i> ," <i>J. Bacteriol.</i> 172(10):5767-5773 (1990)	
1	BN	Gast et al., Separation of a blue fluorescence protein from bacterial luciferase. <i>Biochem. Biophys. Res. Commun.</i> 80(1): 14-21 (1978)	
1	BO	Goto et al., Preliminary report on the pink-colored <i>Cypridina</i> luciferase, a natural model of the luciferin-luciferase complex, in <i>Bioluminescence and Chemiluminescence. Basic Chemistry and Analytical Applications</i> , DeLuca et al., eds., pp. 203-207, Academic Press (1981)	
1	BP	Hastings et al., The Red Absorbing Flavin Species in the Reaction of Bacterial Luciferase with FMNH ₂ and O ₂ , <i>Bioluminescence and Chemiluminescence</i> pp. 403-408 (1981).	
1	BQ	Hastings et al., Fluorescence Properties of Luciferase Peroxyflavins Prepared with ISO-FMN and 2-THIO FMN, <i>Bioluminescence and Chemiluminescence</i> pp. 97-102 (1981).	
1	BR	Hastings, <i>Bioluminescence</i> , in <i>Cell Physiol.: Source Book</i> , Sperelakis, ed., pp. 665-681, Academic Press (1995)	
1	BS	Hill et al., <i>Bioluminescence and Chemiluminescence. Basic Chemistry and Analytical Applications</i> , DeLuca et al., eds., pp. 396-399, Academic Press (1981)	
1	BT	Hori et al., Structure of native <i>Renilla reniformis</i> luciferin, <i>Proc. Natl. Acad. Sci. USA</i> 74: 4285-4287 (1977).	
1	BU	Illarionov et al., Sequence of the cDNA encoding the Ca ²⁺ -activated photoprotein obelin from the hydroid poly <i>Obelia longissima</i> , <i>Gene</i> 153:273-274 (1995)	
1	BV	Inouye et al., "Overexpression and purification of the recombinant Ca ²⁺ -binding protein, apoaequorin," <i>J. Biochem.</i> 105(3):473-477 (1989).	
1	BW	Inouye et al., Cloning and sequence analysis of cDNA for the luminescent protein aequorin, <i>Proc. Natl. Acad. Sci. USA</i> 82:3154-3158 (1985).	
1	BX	Inouye et al., Squid bioluminescence II. Isolation from <i>Watasenia scintillans</i> and synthesis of 2-(p-hydroxybenzyl)-6-(p-hydroxyphenyl)-3,7-dihydroimidazo[1,2-a]pyrazin-3-one, <i>Jap. Soc. Chem. Lett.</i> pp. 141-144 (1975).	
1	BY	Inouye et al., Expression of Apoaequorin Complementary DNA in <i>Escherichia coli</i> , <i>Biochemistry</i> 25:8425-8429 (1986).	
1	BZ	Johnson et al., Introduction to the <i>Cypridina</i> system, <i>Methods in Enzymology. Bioluminescence and Chemiluminescence</i> , 57:331-349 (1978).	
1	CA	Johnson, <i>Luminescence, Narcosis, and Life in the Deep Sea</i> , pp. 50-56, Vantage Press	
1 SWL	CB	Johnson et al., "Compartmentalization of algal bioluminescence: autofluorescence of bioluminescent particles in the dinoflagellate <i>Gonyaulax</i> as studied with image-intensified video microscopy and flow cytometry", <i>J. Cell. Biol.</i> 100(5):1435-1446 (1985)	

EXAMINER

DATE CONSIDERED

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LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT			
		APPLICANT BRYAN et al.	
		FILING DATE March 15, 2001	GROUP 1642
1 <i>swl</i>	CC	Karatani et al., A blue fluorescent protein from a yellow-emitting luminous bacterium, <u>Photochem. Photobiol.</u> 55(2): 293-299 (1992)	
1	CD	Kohama et al., Molecular weight of the photoprotein aequorin, <u>Biochemistry</u> 10: 4149-4152 (1971)	
1	CE	Kurose et al., Bioluminescence of the Ca ²⁺ -binding photoprotein aequorin after cysteine modification, <u>Proc. Natl. Acad. Sci. USA</u> 86(1): 80-84 (1989)	
1	CF	Lee et al., "Purification of a Blue-fluorescent Protein from the Bioluminescent Bacterium <i>Photobacterium phosphoreum</i> ," <u>Methods Enzymol.</u> , (Biolumin. Chemilumin.), 57:226-234 (1978)	
1	CG	Lorenz et al., Isolation and expression of a cDNA encoding <i>Renilla reniformis</i> luciferase, <u>Proc. Natl. Acad. Sci. USA</u> 88: 4438-4442 (1991)	
1	CH	Matthews et al., Purification and properties of <i>Renilla reniformis</i> luciferase, <u>Biochemistry</u> , 16: 85-91 (1977)	
1	CI	Matz et al., "Fluorescent proteins from nonbioluminescent Anthozoa species", <u>Nature Biotechnol.</u> , 17:969-973; (1999)	
1	CJ	McElroy et al., The colors of bioluminescence: Role of enzyme and substrate structure, in <u>Molecular Architecture in Cell Physiology</u> , pp. 63-80, Hayashi et al., eds., Prentice-Hall, Inc., Englewood Cliffs, NJ (1966)	
1	CK	Miyamoto et al., Cloning and expression of the genes from the bioluminescent system of marine bacteria, <u>Meth. Enzymol.</u> 133:70-81 (1986)	
1	CL	Morise et al., Intermolecular Energy Transfer in the Bioluminescent System of Aequorea <u>Biochemistry</u> 13:2656-2662 (1974)	
1	CM	Ormo et al. Crystal Structure of the Aequorea victoria Green Fluorescent Protein <u>Science</u> 273:1392-1395 (1996)	
1	CN	Prasher et al., Cloning and expression of the cDNA coding for aequorin, a bioluminescent calcium-binding protein, <u>Biochem. Biophys. Res. Commun.</u> 126(3):1259-1268 (1985)	
1	CO	Prasher et al., <u>Bioluminescence and Chemiluminescence. Basic Chemistry and Analytical Applications</u> , DeLuca et al., eds., pp. 365-367, Academic Press (1981)	
1	CP	Prasher et al., Isolation and expression of a cDNA coding for aequorin, the Ca ²⁺ -activated photoprotein from <i>Aequorea victoria</i> , <u>Meth. Enzymol.</u> 133:288-297 (1986)	
1	CQ	Prasher et al., Sequence comparisons of complementary DNAs encoding aequorin isotypes, <u>Biochem.</u> 26:1326-1332 (1987)	
1	CR	Prasher et al., Primary structure of the <i>Aequorea victoria</i> green-fluorescent protein, <u>Gene</u> 111:229-233 (1992)	
1	CS	Prendergast et al., "Chemical and Physical Properties of Aequorin and the Green Fluorescent Protein Isolated from <i>Aequorea forskalea</i> ", <u>Biochem.</u> , 17: 3448-3453; (1978)	
1	CT	Sandalova, Some notions about structure of bacterial luciferase, obtained by analysis of amino acid sequence, and study of monoclonal antibodies binding, In <u>Biological Luminescence, Proceedings of International School</u> , 1st, ed., Jezowska-Trzebiatowska et al., World Science (1990)	
1	CU	SeaLite Sciences Technical Report No. 3, "The Recombinant Photoprotein, AquaLite™", SeaLite Sciences, Inc., pages 1-6; (1994)	
1	CV	Sherf et al., Dual-luciferase reporter assay: an advanced co-reporter technology integrating firefly and <i>Renilla</i> luciferase assays, <u>Promega Notes</u> 57:2-5 (1996)	
1	CW	Shimomura et al., Semi-synthetic aequorin. An improved tool for the measurement of calcium ion concentration, <u>Biochem. J.</u> 251(2): 405-10 (1988)	
1 <i>swl</i>	CX	Shimomura et al. Structure of Light-Emitting Moiety of Aequorin <u>Biochemistry</u> 11:1602-1608 (1972)	

EXAMINER

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		FILING DATE March 15, 2001	GROUP 1642
1 SWL	CY	Shimomura et al., Recombinant aequorin and recombinant semi-synthetic aequorins. Cellular Ca ²⁺ ion indicators, <u>Biochem. J.</u> 270(2): 309-12 (1990)	
1	CZ	Shimomura et al. The Structure of <i>Latia</i> Luciferin <u>Biochemistry</u> 7:1734-1738 (1968)	
1	DA	Shimomura, Structure of the Chromophore of Aequorea Green Fluorescent Protein <u>FEBS Letters</u> 104:220-222 (1979)	
1	DB	Shimomura et al., Extraction, purification and properties of a aequorin, a bioluminescent protein from the luminous hydromedusan, <i>Aequorea</i> , <u>J. Cell. Comp. Physiol.</u> 59: 223-238 (1962)	
1	DC	Shimomura et al., Properties and reaction mechanism of the bioluminescence system of the deep-sea shrimp <i>Oplophorus graciliorostris</i> , <u>Biochem</u> 17(6): 994-998 (1978)	
1	DD	Shimomura et al., Properties of the bioluminescent protein aequorin, <u>Biochemistry</u> 8: 3991-3997 (1969)	
1	DE	Shimomura et al. Reactions Involved in Bioluminescence of Limpet (<i>Latia neritoides</i>) and Luminous Bacteria <u>Proc. Natl. Acad. Sci. U.S.A.</u> 69:2086-2089 (1972)	
1	DF	Spurlok et al., A fine structure study of the anthocodium in <i>Renilla mulleri</i> , <u>J. of Cell Biology</u> 64:15-28 (1975)	
1	DG	Thompson et al., Cloning and expression of cDNA for the luciferase from the marine ostracod <i>Vargula hilgendorfi</i> , <u>Proc. Natl. Acad. Sci. USA</u> 86: 6567-6571 (1989)	
1	DH	Tsien, The Green Fluorescent Protein <u>Annu. Rev. Biochem.</u> 67:509-544 (1998)	
1	DI	Tsuji et al., Some properties of luciferase from the bioluminescent crustacean, <i>Cypridina hilgendorfi</i> , <u>Biochem.</u> 13(25):5204-5209 (1974)	
1	DJ	Tsuji, "Cypridina luciferin and luciferase", <u>Meth. Enzymol.</u> 57:364-372; (1978)	
1	DK	Tsuji et al., Site-specific mutagenesis of the calcium-binding photoprotein aequorin, <u>Proc. Natl. Acad. Sci. USA</u> 83:8107-8111 (1986)	
1	DL	Wampler et al. Similarities in the Bioluminescence from the Pennatulacea <u>Biochimica et Biophysica Acta</u> 314:104-109 (1973).	
1	DM	Ward et al., Energy Transfer Via Protein-Protein Interaction in <i>Renilla</i> Bioluminescence, <u>Photochemistry and Photobiology</u> 27:389-396 (1978).	
1	DN	Ward et al., Sequence and Chemical Structure of the Hexapeptide Chromophore of Aequorea Green-Fluorescent Protein, <u>Photochemistry and Photobiology</u> 49:62S (1989)	
1 SWL	DO	Ward et al., Extraction of <i>Renilla</i> -type luciferin from the calcium-activated photoproteins aequorin, mnemiopsin, and berovin, <u>Proc. Natl. Acad. Sci. USA</u> 72: 2530-2534 (1975)	

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	APPLICANT BRYAN et al.	
	FILING DATE March 15, 2001	GROUP 1642

2) Art that concerns uses of GFP, or Luciferase.

U.S. PATENT DOCUMENTS													
EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLAS S	SUB CLAS S	FILING DATE
2 SWL	DP	4	8	6	1	7	0	9	8/29/89	Ulitzur <i>et al.</i>	435	6	5/31/85
2	DQ	5	1	9	6	3	1	8	3/23/93	Baldwin <i>et al.</i>	435	69.1	06/26/90
2	DR	5	2	2	1	6	2	3	6/22/93	Legocki <i>et al.</i>	435	252.3	7/19/89
2	DS	5	2	4	6	8	3	4	9/21/93	Tsuji <i>et al.</i>	435	7.91	2/19/92
2	DT	5	4	9	1	0	8	4	02/13/96	Chalfie <i>et al.</i>	435	189	09/10/93
2	DU	5	7	7	6	6	8	1	07/07/98	Virta <i>et al.</i>	435	6	09/15/95
2	DV	5	8	9	1	6	4	6	04/06/99	Barak <i>et al.</i>	435	7.2	06/05/97
2 SWL	DW	5	9	1	2	1	3	7	06/15/99	Tsien <i>et al.</i>	435	15	07/16/96

FOREIGN PATENT DOCUMENTS														
		DOCUMENT NUMBER							DATE	COUNTRY	CLAS S	SUB CLAS S	Translation Yes No	
2 SWL	DX	0	2	4	5	0	9	3	11/11/87	EP A1				
2	DY	0	2	4	5	0	9	3	11/11/87	EP B1	--	--		
2	DZ	0	3	8	6	6	9	1	9/12/90	EP A3	C12Q 1	68		
2	EA	2	2	8	8	2	3	2	10/11/95	UK				
2	EB	3	9	3	5	9	7	4	5/2/91	DE A1			X*	
2	EC	5	0	6	4	5	8	3	3/19/93	JP				X*
2	ED	9	6	0	7	1	0	0	03/07/96	PCT				
2	EE	9	7	1	1	0	9	4	03/27/97	PCT	--	--		
2	EF	9	7	2	8	2	6	1	08/07/97	PCT	--	--		
2	EG	9	7	4	1	2	2	8	11/06/97	PCT				
2	EH	9	8	0	2	5	7	1	01/22/98	PCT	--	--		
2	EI	9	8	1	4	6	0	5	04/09/98	PCT	--	--		
2 SWL	EJ	9	8	2	6	2	7	7	6/18/98	PCT	G01N	21/76		

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

2 SWL	EK	"AquaLite®. A calcium-triggered photoprotein," <u>SeaLite Sciences Technical Report No. 3</u> (1994)
2	EL	Amsterdam, et al. The Aequorea victoria Green Fluorescent Protein Can Be Used as a Reporter in Live Zebrafish Embryos <u>Developmental Biology</u> 171:123-129 (1995)
2	EM	Anctil et al., Mechanism of photoinactivation and re-activation in the bioluminescence system of the ctenophore Mnemiopsis, <u>Biochem. J.</u> 22(1): 269-272 (1984)
2	EN	Badminton et al., nucleoplasmin-targeted aequorin provides evidence for a nuclear calcium barrier, <u>Expt. Cell Research</u> 216(1): 236-243 (1995)
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2	ES	Charbonneau et al. Ca^{2+} -induced Bioluminescence in <i>Renilla reniformis</i> Purification and Characterization of a Calcium-Triggered Luciferin-Binding Protein <u>J. Biol. Chem.</u> 254:769-780 (1979)	
2	ET	Cody et al. Chemical Structure of the Hexapeptide Chromophore of the Aequorea Green-Fluorescent Protein <u>Biochemistry</u> 32:1212-1218 (1993)	
2	EU	Cormack et al. Yeast-enhanced green fluorescent protein (yEGFP): a reporter of gene expression in <i>Candida albicans</i> <u>Microbiology</u> 143:303-311 (1997)	
2	EV	Cormier et al., Evidence for similar biochemical requirements for bioluminescence among the coelenterates, <u>J. Cell Physiol.</u> 81: 291-298 (1972)	
2	EW	Cormier "Renilla and Aequorea bioluminescence" pp 225-233 in <u>Bioluminescence and Chemiluminescence. Basic Chemistry and Analytical Applications.</u> DeLuca et al eds, Academic Press 1981.	
2	EX	Dabiri et al. Myofibrillogenesis visualized in living embryonic cardiomyocytes <u>Pro. Natl. Acad. Sci. USA</u> 94:9493-9498 (1997)	
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2	EZ	Fey et al. Green Fluorescent protein production in the cellular slime molds <i>Polysphondylium pallidum</i> and <i>Dictyostelium discoideum</i> <u>Gene</u> 165:127-130 (1995)	
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2	FB	Giuliano et al. Fluorescent-protein biosensors: new tools for drug discovery <u>TiBech</u> 16: 135-140 (1998)	
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2	FD	Hart et al. "Renilla reniformis bioluminescence: Luciferase-catalyzed production of nonradiating excited states from luciferin analogues and elucidation of the excited state species involved in energy transfer to Renilla green fluorescent protein", (1979) <u>Biochemistry</u> 18:2204-2210 (1979)	
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2	FG	Hori et al., Renilla luciferin as the substrate for calcium induced photoprotein bioluminescence. Assignment of luciferin plutomers in aequorin and mnemiopsin, <u>Biochemistry</u> 14: 2371-2376, (1975).	
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2	FK	Inouye et al., "Imaging of luciferase secretion from transformed Chinese hamster ovary cells," <u>Proc. Natl. Acad. Sci. USA</u> 89:9584-9587 (1992)	
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2	FM	Kain et al., Green Fluorescent Protein as a reporter of Gene Expression and Protein Localization <u>BioTechniques</u> 19:650-655 (1995)	
2	FN	Karp et al., <u>Bioluminescence and Chemiluminescence. Basic Chemistry and Analytical Applications</u> , DeLuca et al., eds., pp. 360-363, Academic Press (1981)	
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2	FW	Miyawaki et al. Fluorescent indicators for Ca^{2+} based on green fluorescent proteins and calmodulin <u>Nature</u> 388:882-887 (1997)	
2	FX	Morin, Energy in a Bioluminescent System, <u>J. Cell Physiol.</u> , 77:313-318 (1971)	
2	FY	Nakajima-Shimada et al., Monitoring of intracellular calcium in <i>Saccharomyces cerevisiae</i> with an apoeaquerin cDNA expression system, <u>Proc. Natl. Acad. Sci. USA</u> 88(15): 6878-6882 (1991)	
2	FZ	Plautz et al., Green Fluorescent protein and its derivatives as versatile markers for gene expression in living <i>Drosophila melanogaster</i> , plant and mammalian cells <u>Gene</u> 173:83-87 (1996)	
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2	GB	Rizzuto et al., Rapid changes of mitochondrial Ca^{2+} revealed by specifically targeted recombinant aequorin, <u>Nature</u> 358(6384): 325-327 (1992)	
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2 SwL	GG	Sgoutas et al., AquaLite® bioluminescence assay of thyrotropin in serum evaluated, <u>Clin. Chem.</u> 41(11):1637-1643 (1995)	
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2	GM	Travis, J. Following the Inner Light, Glow Genes provide revealing pictures of infections <u>Science News</u> 150:220-221 (1996)	
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	APPLICANT BRYAN et al.	
	FILING DATE March 15, 2001	GROUP 1642

3) Art that concerns items/procedures that use chemi- or bio-luminescence.

U.S. PATENT DOCUMENTS														
EXAMINER INITIAL		DOCUMENT NUMBER								DATE	NAME	CLAS S	SUB CLAS S	FILING DATE
3 Swl	GO	3	5	1	1	6	1	2		05/12/70	Kennerly et al.	23	252	03/20/67
3	GP	3	5	6	5	8	1	5		2/23/71	Christy	252	301.3	12/28/67
3	GQ	3	6	6	9	8	9	1		6/13/72	Greenwood et al.	252	90	5/27/70
3	GR	4	3	1	3	8	4	3		2/2/82	Bollyky et al.	252	188.3	9/9/76
3	GS	4	4	7	8	8	1	7		10/23/84	Campbell et al.	424	7.1	11/14/78
3	GT	4	5	3	4	3	1	7		08/13/85	Walsh	119	51 R	08/30/84
3	GU	4	7	1	4	6	8	2		12/22/87	Schwartz	436	10	04/03/87
3	GV	4	7	6	7	2	0	6		8/30/88	Schwartz	356	73	12/24/84
3	GW	4	7	7	4	1	8	9		9/27/88	Schwartz	436	10	12/11/85
3	GX	4	7	7	7	1	2	8		10/11/88	Lippa	435	5	05/27/86
3	GY	4	8	5	3	3	2	7		8/1/89	Dattagupta	435	6	7/10/85
3	GZ	4	8	6	7	9	0	8		9/19/89	Recktenwald et al.	252	408.1	6/4/87
3	HA	4	9	5	0	5	8	8		8/21/90	Dattagupta	435	6	09/27/88
3	HB	5	0	0	4	5	6	5		4/02/91	Schaap	252	700	07/27/88
3	HC	5	1	8	9	0	2	9		02/23/93	Boyer et al.	514	64	04/23/90
3	HD	5	2	7	9	9	4	3		1/18/94	Mathis et al.	435	7.32	01/19/93
3	HE	5	3	7	4	5	3	4		12/20/94	Zomer et al.	435	8	5/14/93
3	HF	5	4	2	2	0	7	5		06/06/95	Saito et al.	422	52	05/27/93
3	HG	5	4	2	4	2	1	6		6/13/95	Nagano et al.	436	116	8/16/93
3	HH	5	4	3	3	8	9	6		07/18/95	Kang et al.	252	700	05/20/94
3	HI	5	4	3	5	9	3	7		7/25/95	Bell et al.	252	301.18	02/12/93
3	HJ	5	4	3	9	7	9	7		08/08/95	Tsien et al.	435	7.21	08/30/93
3	HK	5	4	5	1	3	4	7		9/19/95	Akhavan-Tafti et al.	252	700	6/24/93
3	HL	5	4	8	4	7	2	3		01/16/96	Zenno et al.	435	189	06/28/94
3	HM	5	4	8	6	4	5	5		01/23/96	Stults	435	6	08/22/94
3 Swl	HN	5	7	1	9	0	4	4		02/17/98	Shoseyov et al.	435	69.7	02/17/98

FOREIGN PATENT DOCUMENTS														
		DOCUMENT NUMBER								DATE	COUNTRY	CLAS S	SUB CLAS S	Translation Yes No
3 Swl	HO	0	0	2	5	3	5	0		09/05/80	EP A2			
3	HP	0	1	9	4	1	0	2		10/23/91	EP B1			
3	HQ	0	2	4	6	1	7	4		11/19/87	EP A1			X*
3	HR	0	7	1	3	0	8	9		05/22/96	EP A2			
3	HS	2	2	9	2	5	9	5		6/25/76	FR			X*
3 Swl	HT	9	2	0	1	2	2	5		01/23/92	PCT			

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										FILING DATE March 15, 2001		GROUP 1642		
3 SWL	HU	9	2	0	4	5	7	7	03/19/92	PCT				X*
3	HV	9	4	1	8	3	4	2	8/18/94	PCT				
3 SWL	HW	9	9	6	6	3	2	4	12/23/99	PCT				

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3	HY	Apt et al., Evolution of phycobiliproteins, <i>J. Mol. Biol.</i> 248: 79-96 (1995)												
3	HZ	Baird et al., "Biochemistry, mutagenesis, and oligomerization of DsRed, a red fluorescent protein from coral", <i>PNAS</i> , 97(22):11984-11989; (2000)												
3	IA	Bondar et al., Cadmium-induced luminescence of recombinant photoprotein obelin, <i>Biochim. Biophys. Acta</i> 1231: 29-32 (1995)												
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3	IC	Cardullo et al. Detection of nucleic acid hybridization by nonradiative fluorescence resonance energy transfer <i>Pro.Natl. Acad. Sci. USA</i> 85:8790-9794 (1988)												
3	ID	Crescitelli, Adaptations of visual pigments to the photic environment of the deep sea, <i>J. Exptl. Zool. Supp.</i> 5: 66-75 (1991)												
3	IE	Database Derwent #008987167 (citing WO 9204577, Chemiluminescence prodn. in liq.-contg. vessel - by placing reagent envelope in liq. or vessel base)												
3	IF	Fairchild et al., Oligomeric Structure, Enzyme Kinetics, and Substrate Specificity of the Phycocyanin Subunit Phycocyanobilin Lyase, <i>The Journal of Biological Chemistry</i> 269(12): 8686-8694 (1994).												
3	IG	Frackman et al., "Cloning, Organization, and Expression of the Bioluminescence Genes of <i>Xenorhabdus luminescens</i> ," <i>J. Bacteriol.</i> , 172(10):5767-5773; (1990)												
3	IH	Goldmacher et al., "Photoactivation of Toxin Conjugates", <i>Bioconj. Chem.</i> , 3:104-107; (1992)												
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3	IK	Glazer, Phycobilisomes: structure and dynamics, <i>Ann. Rev. Microbiol.</i> 36: 173-98 (1982).												
3	IL	Goldstein et al., Characterization of the Cellulose-Binding Domain of the <i>Clostridium cellulovorans</i> Cellulose-Binding Protein A, <i>Journal of Bacteriology</i> 175(18): 5762-5768 (1993).												
3	IM	Hart et al., <i>Renilla reniformis</i> Bioluminescence: Luciferase-Catalyzed Production of Nonradiating Excited States from Luciferin Analogues and Elucidation of the Excited State Species Involved in Energy Transfer to <i>Renilla</i> Green Fluorescent Protein, <i>Biochemistry</i> 18(11):2204-2210 (1979).												
3	IN	Houmard et al., Genes encoding core components of the phycobilisome in cyanobacterium <i>Calothrix</i> sp. strain PCC 7601: occurrence of a multigene family, <i>J. Bacteriol.</i> 170(12): 5512-5521 (1988)												
3	IO	Illarionov et al., "Sequence of the cDNA encoding the Ca ²⁺ -activated photoprotein obelin from the hydroid polyp <i>Obelia longissima</i> ", <i>Gene</i> , 153:273-274; (1995)												
3	IP	Johnson, F.H., Luminescence, Narcosis, and Life in the Deep Sea, <i>Vantage Press, NY</i> pp. 50-56 (1988)												
3	IQ	Kronick, The use of phycobiliproteins as fluorescent labels in immunoassay, <i>J. Immunolog. Meth.</i> 92: 1-13 (1986)												
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3	IT	Morin et al., "Energy Transfer in _ Bioluminescent System", <u>J. Cell Physiol.</u> , 77:313-318; (1971)	
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3	IV	Nicolli et al., Bacterial luciferase: The hydrophobic environment of the reactive sulfhydryl, <u>J. Biol. Chem.</u> 249: 2393-2396 (1974)	
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3	IX	Peerce et al. Distance between substrate sites on the Na-glucose cotransporter by fluorescence energy transfer <u>Proc. Natl. Acad. Sci. USA</u> 83:8092-8096 (1986)	
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3	JA	Shimomura et al., Resistivity to denaturation of the apoprotein of aequorin and reconstitution of the luminescent photoprotein from the partially denatured apoprotein, <u>Biochem J.</u> 199:825-828 (1981)	
3	JB	Shimomura et al., Regeneration of the photoprotein aequorin, <u>Nature</u> 256: 236-238 (1975)	
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3	JD	Shimomura, Bioluminescence in the sea: photoprotein systems [Review], <u>Symposia of the Society for Experimental Biology</u> 39: 351-372 (1985)	
3	JE	Shimomura, "Cause of spectral variation in the luminescence of semisynthetic aequorins", <u>Biochem J.</u> 306:537-543 (1995)	
3	JF	Shimomura et al., Peroxidized coelenterazine, the active group in the photoprotein aequorin, <u>Proc. Natl. Acad. Sci. USA</u> 75(6): 2611-5 (1978)	
3	JG	Smalley et al., "Localization of fluorescent compounds in the firefly light organ", <u>J. Histochem. Cytochem.</u> 28(4):323-329 (1980)	
3	JH	Smith et al., Bioluminescent immunoassays using streptavidin and biotin conjugates of recombinant aequorin, reprinted from <u>American Biotechnology Laboratory</u> , April 1995	
3	JI	Stability of AquaLite®: lyophilized and in solution, <u>SeaLife Sciences Technical Report No. 8</u> (1994)	
3	JJ	Stephenson et al. Studies on the Luminescent Response of the Ca ²⁺ -Activated Photoprotein, <u>Obelin Biochimica et Biophysica Acta</u> 678:65-75 (1981)	
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3	JM	Vysotski et al., Luminescence of Ca ²⁺ -activated photoprotein obelin initiated by NaOCl and MnCl ₂ , <u>J. Biolumin. Chemilum.</u> 8:301-305 (1993)	
3	JN	Wall et al., "The structural basis for red fluorescence in the tetrameric GFP homolog DsRed", <u>Nature Structural Biol.</u> , 7(12):1133-1138; (2000)	
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		FILING DATE March 15, 2001	GROUP 1642
		Separation and Characterization of the Renatured Protein <u>Biochemistry 21:4535-4540 (1982)</u>	
3 <i>SWL</i>	JP	Ward, Properties of the Coelenterate Green-Fluorescent Proteins <u>Bioluminescence and Chemiluminescence 235-242 (1981)</u>	
3	JQ	Ward, General Aspects of Bioluminescence, in <u>Chemi- and Bioluminescence</u> , Ch. 7, Burr, ed., Marcel Dekker, Inc., New York	
3	JR	Ward et al. Energy Transfer Via Protein-Protein Interaction in Renilla Bioluminescence <u>Photochemistry and Photobiology 27:389-396 (1978)</u>	
3	JS	Ward, Energy Transfer Processes in Bioluminescence <u>Photochem. Photobiol. Rev. 4:1-57</u>	
3	JT	Ward et al., An energy transfer protein in coelenterate bioluminescence, <u>J. Biol. Chem. 254: 781-788 (1979)</u>	
3	JU	Ward et al. In Vitro Energy Transfer in Renilla Bioluminescence <u>The Journal of Physical Chemistry 8:2289-2291 (1976)</u>	
3	JV	Watanabe et al., Bunding of murine monoclonal antibodies to the active and inactive configurations of aequorin, <u>FEBS Lett. 246(1-2): 73-77 (1989)</u>	
3	JW	Watkins et al., Requirement of the C-terminal proline residue for stability of the Ca ²⁺ -activated photoprotein aequorin, <u>Biochem. J. 293(Pt.1): 181-185 (1993)</u>	
3	JX	Welches et al., Active center studies on bacterial luciferase: Modification of the enzyme with 2,4-dinitrofluorobenzene, <u>Biochemistry 20: 512-517 (1981)</u>	
3	JY	Widder et al., "Far red bioluminescence from two deep-sea fishes", <u>Science 225:512-514 (1984)</u>	
3	JZ	Wienhausen et al., Luciferases from different species of fireflies are antigenically similar, <u>Photochem. Photobiol. 42: 609-611 (1985)</u>	
3	KA	Yarbrough et al., "Refined crystal structure of DsRed, a red fluorescent protein from coral, at 2.0-Å resolution", <u>PNAS, 98(2):462-467; (2001)</u>	
3	KB	Yen et al., "Synthesis of water-soluble copolymers containing photocleavable bonds", <u>Makromol. Chem., 190:69-82; (1989)</u>	
3 <i>SWL</i>	KC	Ziegler et al., Active center studies on bacterial luciferase: Locations of the protease labile regions and the reactive cysteinyl residue in the primary structure of the _ subunit, <u>Bioluminescence and Chemiluminescence. Basic Chemistry and Analytical Applications, DeLuca et al., eds., pp. 376-377, Academic Press (1981)</u>	

EXAMINER	DATE CONSIDERED
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LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT		
APPLICANT BRYAN et al.		
FILING DATE March 15, 2001		GROUP 1642

4) Art that concerns novelty items which use chemi- or bioluminescence.

U.S. PATENT DOCUMENTS														
EXAMINER INITIAL		DOCUMENT NUMBER								DATE	NAME	CLAS S	SUB CLAS S	FILING DATE
4 <i>SWL</i>	KD	3	5	8	4	2	1	1	6/8/71	Rauhut	240	2.25	10/7/68	
4	KE	3	6	3	4	2	8	0	1/11/72	Dean et al.	252	301.3 R	12/31/68	
4	KF	3	6	6	1	7	9	0	5/9/72	Dean et al.	252	301.3 R	1/31/68	
4	KG	4	5	6	3	7	2	6	1/7/86	Newcomb et al.	362	34	8/20/84	
4	KH	4	7	1	7	1	5	8	1/5/88	Pennisi	273	58A	6/26/86	
4	KI	4	7	8	1	6	4	7	11/1/88	Doane, Jr.	446	219	5/4/87	
4	KJ	4	9	2	4	3	5	8	5/8/90	Von Heck	362	32	9/12/88	
4	KK	4	9	6	3	1	1	7	10/16/90	Gualdoni	446	219	10/30/89	
4	KL	5	1	5	8	3	4	9	10/27/92	Holland et al.	362	34	07/03/91	
4	KM	5	1	7	1	0	8	1	12/15/92	Pita et al.	362	34	5/29/92	
4	KN	5	2	2	2	7	9	7	6/29/93	Holland	362	34	10/31/91	
4	KO	5	3	2	3	4	9	2	6/28/94	DeMars	2	203.13	11/6/92	
4	KP	5	3	8	3	1	0	0	01/17/95	Kikos	362	34	08/02/91	
4	KQ	5	4	1	3	3	3	2	5/09/95	Montgomery	273	58	05/26/94	
4	KR	5	4	1	5	1	5	1	5/16/95	Fusi et al.	124	56	9/20/93	
4	KS	5	6	7	1	9	9	8	09/30/97	Collet	362	101	08/30/91	
4	KT	5	7	3	0	3	2	1	03/24/98	McAllister et al.	222	1	12/13/95	
4	KU	5	8	7	6	9	9	5	3/2/99	Bryan	435	189	11/25/96	
4	KV	6	1	1	3	8	8	6	09/05/00	Bryan	424	49	11/22/99	
4 <i>SWL</i>	KW	6	1	5	2	3	5	8	11/28/00	Bryan	229	87.19	08/17/98	

FOREIGN PATENT DOCUMENTS														
		DOCUMENT NUMBER								DATE	COUNTRY	CLAS S	SUB CLAS S	Translation Yes No
4 <i>SWL</i>	KX	9	7	2	9	3	1	9	08/14/97	PCT	-	-		

EXAMINER <i>SWL</i>	DATE CONSIDERED 4/8/05
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APPLICANT BRYAN et al.		
FILING DATE March 15, 2001		GROUP 1642

5) Art that concerns items/procedures that do not use chemi- or bioluminescence

U.S. PATENT DOCUMENTS														
EXAMINER INITIAL		DOCUMENT NUMBER								DATE	NAME	CLAS S	SUB CLAS S	FILING DATE
5 Swl	KY	2	5	4	1	8	5	1		2/13/51	Wright	260	37	12/23/44
5	KZ	3	6	4	9	0	2	9		03/14/72	Worrell	273	186	07/09/69
5	LA	3	7	2	7	2	3	6		04/17/73	Lloyd et al.	2	51	06/15/71
5	LB	3	3	8	4	4	9	8		5/21/68	Ahrabi	106	38.5	1/4/67
5	LC	3	8	7	3	4	8	5		3/25/75	Fichera	260	29.2	4/3/74
5	LD	4	0	2	1	3	6	4		5/03/77	Speiser	252	316	12/04/73
5	LE	4	0	4	4	1	2	6		08/23/77	Cook et al.	424	243	07/09/76
5	LF	4	1	7	5	1	8	3		11/20/79	Ayers	536	57	05/24/78
5	LG	4	1	7	7	0	3	8		12/04/79	Biebricher et al.	8	192	05/17/77
5	LH	4	2	2	5	5	8	1		9/30/80	Kreuter et al.	424	88	8/07/78
5	LI	4	2	2	9	7	9	0		11/21/80	Gilliland et al.	364	200	10/16/78
5	LJ	4	2	6	9	8	2	1		5/26/81	Kreuter	424	19	05/02/80
5	LK	4	2	8	1	6	4	5		08/04/81	Jöbbsis	128	633	06/28/77
5	LM	4	2	8	2	2	8	7		8/4/81	Giese	428	407	01/24/80
5	LN	4	3	2	4	6	8	3		4/13/82	Lim et al.	252	316	08/20/75
5	LO	4	3	6	4	9	2	3		12/21/82	Cook et al.	424	46	04/30/81
5	LP	4	4	1	4	2	0	9		11/08/83	Cook et al.	424	243	06/13/77
5	LQ	4	5	2	8	1	8	0		7/09/85	Schaeffer	424	52	03/01/83
5	LR	4	5	4	2	1	0	2		9/17/85	Dattagupta et al.	435	6	07/05/83
5	LS	4	5	6	2	1	5	7		12/31/85	Lowe et al.	435	291	05/25/84
5	LT	4	6	7	6	4	0	6		6/30/87	Frischmann et al.	222	136	9/29/86
5	LU	4	6	8	1	8	7	0		7/21/87	Balint et al.	502	403	01/11/85
5	LV	4	7	3	5	6	6	0		4/5/88	Cane	106	203	6/26/87
5	LW	4	7	4	5	0	5	1		05/17/88	Smith et al.	435	68	05/27/83
5	LX	4	7	6	2	8	8	1		8/09/88	Kauer	525	54.11	01/09/87
5	LY	4	7	6	5	5	1	0		8/23/88	Rende	222	79	4/7/87
5	LZ	4	7	8	9	6	3	3		12/06/88	Huang	435	240.2	04/19/84
5	MA	4	8	7	0	0	0	9		09/26/89	Evans et al.	435	70	12/15/83
5	MB	4	8	8	2	1	6	5		11/21/89	Hunt et al.	424	450	11/05/86
5	MC	4	8	9	1	0	4	3		1/02/90	Zeimer et al.	604	20	05/28/87
5	MD	4	9	0	8	4	0	5		3/13/90	Bayer et al.	525	61	01/02/86
5	ME	4	9	2	1	7	5	7		5/01/90	Wheatley et al.	428	402.2	09/03/87
5	MF	4	9	2	7	9	2	3		05/22/90	Mathis et al.	540	456	09/20/85
5	MG	4	9	5	2	4	9	6		08/28/90	Studier et al.	435	91	12/29/86
5	MH	5	0	2	3	1	8	1		6/11/91	Inouye	435	189	7/13/88
5	MI	5	0	9	6	8	0	7		3/17/92	Leaback	435	6	3/17/92
5	MJ	5	1	2	8	2	5	6		07/07/92	Huse et al.	435	172.3	04/20/89
5 Swl	MK	5	1	6	2	5	0	8		11/10/92	Lehn et al.	401	04	06/26/91

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										FILING DATE March 15, 2001		GROUP 1642	
5 SWL	ML	5	1	6	9	7	8	4	12/08/92	Summers et al.	435	320.1	09/17/90
5	MN	5	2	1	5	8	9	9	06/01/93	Dattagupta	435	6	08/23/90
5	MO	5	2	4	3	0	4	1	09/07/93	Fernandez-Pol	536	23.5	08/22/91
5	MP	5	2	6	6	3	1	7	11/30/93	Tomalski et al.	424	93 T	10/04/90
5	MQ	5	2	6	8	4	6	3	12/7/93	Jefferson	536	23.7	12/8/89
5	MR	5	2	7	7	9	1	3	1/11/94	Thompson et al.	424	450	09/09/91
5	MS	5	2	8	8	6	2	3	02/22/94	Zenno et al.	435	69.7	07/13/92
5	MT	5	3	1	0	4	2	1	5/10/94	Shapero et al.	106	208	2/7/92
5	MU	5	3	3	7	7	4	5	08/16/94	Benaron	128	633	11/12/93
5	MV	5	3	6	0	7	2	6	11/01/94	Raikhel	435	172.3	11/12/91
5	MW	5	3	6	2	8	6	5	11/8/94	Austin	536	24.1	9/2/93
5	MX	5	3	6	4	7	9	7	11/15/94	Olson et al.	436	501	05/20/93
5	MY	5	3	6	6	8	8	1	11/22/94	Singh et al.	435	177	02/23/93
5	MZ	5	3	8	7	5	2	6	2/07/95	Garner et al.	436	169	09/11/91
5	NA	5	4	0	5	9	0	5	4/11/95	Darr	524	420	11/26/93
5	NB	5	4	0	5	9	5	8	4/11/95	VanGermert	544	71	12/21/92
5	NC	5	4	1	2	0	8	5	5/2/95	Allen et al.	536	24.1	11/09/93
5	ND	5	4	1	3	0	9	8	05/09/95	Benaron	128	633	12/22/92
5	NE	5	4	3	2	0	8	1	7/11/95	Jefferson	435	252.3	11/15/93
5	NF	5	4	5	5	3	5	7	10/03/95	Herrmann et al.	548	147	
5	NG	5	4	6	4	7	5	8	11/7/95	Gossen et al.	435	69.1	6/14/93
5	NH	5	4	9	6	9	3	4	03/05/96	Shoseyov et al.	536	23.7	04/14/93
5	NI	5	6	0	5	6	6	2	02/25/97	Heller et al.	422	68.1	11/01/93
5	NJ	5	6	2	4	7	1	1	04/29/97	Sundberg et al.	427	261	04/27/95
5	NK	5	6	3	2	9	5	7	05/27/97	Heller et al.	422	68.1	09/09/94
5	NL	5	6	7	0	6	2	3	09/23/97	Shoseyov et al.	530	350	06/02/95
5	NM	5	7	3	8	9	8	4	04/14/98	Shoseyov	435	4	06/02/95
5	NN	6	0	2	0	5	3	8	02/01/00	Han et al.	800	293	05/01/98
5 SWL	NO	6	2	3	2	1	0	7	05/15/01	Bryan et al.	435	189	03/26/99

FOREIGN PATENT DOCUMENTS													
		DOCUMENT NUMBER							DATE	COUNTRY	CLAS S	SUB CLAS S	Translation Yes No
5 SWL	NP	7	2	4	1	1	9	2	9/95	JP A			X*
5	NQ	8	6	0	3	8	4	0	07/03/86	PCT			
5	NR	9	3	1	3	3	9	5	07/08/93	PCT			
5	NS	9	4	2	5	8	5	5	11/10/94	PCT			
5 SWL	NT	9	6	0	7	9	1	7	03/14/96	PCT			

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APPLICANT BRYAN et al.		
FILING DATE March 15, 2001		GROUP 1642

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)		
5 <i>swl</i>	NU	Altschul et al., "Basic Local Alignment Search Tool", <i>J. Mol. Biol.</i> , 215:403-410; (1990)
5	NV	Anderson, Radiolaria, Springer-Verlag, New York (1983)
5	NW	Aviv et al., Purification of Biologically Active Globin Messenger RNA by Chromatography on Oligothymidylic acid-Cellulose, <i>Proc. Natl. Acad. Sci. USA</i> 69(6):1408-1412 (1972).
5	NX	Batra et al., "Insertion of Constant Region Domains of Human IgG, into CD4-PE40 Increases Its Plasma Half-life", <i>Molecular Immunol.</i> , 30(4):379-386; (1993)
5	NY	Bayer and Wichek (1980) The Use of Avidin/Biotin Complex as a Tool in Molecular Biology. <i>Meth. Biochem. Anal.</i> 26, 1-45
5	NZ	Berg et al., Long-chain polystyrene-grafted polyethylene film matrix: a new support for solid-phase peptide synthesis, <i>J. Am. Chem. Soc.</i> 111: 8026-8027 (1989)
5	OA	Berg et al., Peptide synthesis on polystyrene-grafted polyethylene sheets, <i>Pept., Proc. Eur. Pept. Symp.</i> , 20th, Jung et al. (Eds.), pp. 196-198 (1989)
5	OB	Berg et al., Polystyrene-grafted polyethylene: Design of film and felt matrices for solid-phase peptide synthesis, <i>Innovation Perspect. Solid Phase Synth. Collect. Pap., Int. Symp., 1st</i> , Epton (ed.), pp. 453-459 (1990)
5	OC	Biocomputing: Informatics and Genome Projects, Book: Smith, D.W., Ed., Academic Press, New York; (1993)
5	OD	Bodanszky and Bodanszky, <i>The Practice of Peptide Synthesis</i> , Springer-Verlag, New York, (1984)
5	OE	Bunnin et al. The combinatorial synthesis and chemical and biological evaluation of a 1,4-benzodiazepine library, <i>Proc. Natl. Acad. Sci. USA</i> , 91:4708-4712 (1994)
5	OF	Carlsson et al. Protein Thiolation and Reversible Protein-Protein Conjugation <i>Biochem. J.</i> 173: 723-737 (1978)
5	OG	Carrillo et al., "The Multiple Sequence Alignment Problem in Biology", <i>SIAM J. Applied Math.</i> , 48(5):1073-1082; (1988)
5	OH	Childress, "Oxygen minimum layer: Vertical distribution and respiration of the mysid gnathophausia ingens", <i>Science</i> 160:1242-1243 (1968)
5	OI	Chirgwin et al., Isolation of Biologically Active Ribonucleic Acid from Sources Enriched in Ribonuclease, <i>Biochemistry</i> 18(24):5294-5299 (1979).
5	OJ	<i>Computational Molecular Biology</i> , Book: Lesk, A.M., ed., Oxford University Press, New York; (1988)
5	OK	<i>Computer Analysis of Sequence Data</i> , Book: Part I, Griffin, A.M., and Griffin, H.G., eds., Humana Press, New Jersey; (1994)
5	OL	Cumber et al., "Structural Features of the Antibody-A Chain Linkage that Influence the Activity and Stability of Ricin A Chain Immunotoxins", 3(5):397-401; (1992)
5	OM	Devereux et al., "A comprehensive set of sequence analysis programs for the VAX", <i>Nucl. Acids Res.</i> , 12(1):387-395; (1984)
5	ON	DeWitt et al., Diversomers: an approach to nonpeptide, nonoligomeric chemical diversity, <i>Proc. Natl. Acad. Sci. USA</i> 90: 6909-6913 (1993)
5	OO	DeWitt et al., DIVERSOMER™ Technology: solid phase synthesis, automation, and integration for the generation of chemical diversity, <i>Drug Dev Res</i> 33:116-124 (1994).
5	OP	DIALOG Abstract 002042687, citing: JP 7241192
5	OQ	Düzgunes et al., Fusion of phospholipid vesicles induced by divalent cations and protons; modulation by phase transitions, free fatty acids, monovalent cations, and polyamines, <i>Cell Fusion</i> , Ch. 11 Divalent Cations and Protons, Sowers, A.E. (ed.) pp. 241-267 (1984).
5 <i>swl</i>	OR	Fattom et al., "Comprehensive Immunogenicity of Conjugates Composed of the

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		Staphylococcus aureus Type 8 Capsular Polysaccharide Bound to Carrier Proteins by Adipic Acid Dihydrazide or N-Succinimidyl-3-(2-Pyridylthio)propionate", <i>Infection & Immun.</i> , 60(2):584-589; (1992)	
5	OS	Goodchild, "Conjugates of oligonucleotides and modified oligonucleotides: A review of their synthesis and properties", <i>Perspectives in Bioconjugate Chemistry</i> , Mears, ed., American Chemical Society, Washington, D.C., Ch 6, pp. 77-99 (1993)	
5	OT	Gordon et al. Topographical localization of the C-terminal region of the voltage-dependent sodium channel from <i>Electrophorus electricus</i> using antibodies raised against a synthetic peptide <i>Proc. Natl. Acad. Sci.</i> 84:308-312 (1987)	
5	OU	Gribskov et al., "Sigma factors from <i>E. coli</i> , <i>B. subtilis</i> , phage SP01, and phage T4 are homologous proteins", <i>Nucl. Acids Res.</i> , 14(16):6745-6762; (1986)	
5	OV	Guide to Human Genome Computing, Book: Martin J. Bishop, ed., Academic Press, San Diego; (1994)	
5	OW	Guyomard et al., Integration and germ line transmission of foreign genes microinjected into fertilized trout eggs, <i>Biochimie</i> 71:857-863 (1989)	
5	OX	Hazum et al., A photocleavable protecting group for the thiol function of cysteine, <i>Pept., Proc. Eur. Pept. Symp.</i> , 16th, Brunfeldt, K (Ed), pp. 105-110 (1981)	
5	OY	Hermanson et al., <i>Immobilized Affinity Ligand Techniques</i> , Chaps. 1 and 2, Academic Press, Inc. (1992)	
5	OZ	Immobilized Biochemicals and Affinity Chromatography, <i>Advances in Experimental Medicine and Biology</i> , vol. 42, ed. R. Dunlap, Plenum Press, N.Y. (1974) Table of Contents	
5	PA	Immobilized Enzyme, Antigens, Antibodies and Peptides. Preparation and Characterization, Marcel Dekker, Inc., N.Y., Howard H. Weetall (ed.) (1975)	
5	PB	Jellinek et al., "Potent 2'-Amino-2'-deoxypyrimidine RNA Inhibitors of Basic Fibroblast Growth Factor", <i>Biochem.</i> , 34:11363-11372; (1995)	
5	PC	Kennedy and Cabral, Immobilized Enzymes, in <i>Solid Phase Biochemistry, Analytical and Synthetic Aspects</i> , Scouten, Ed., 7:253-391 (1983)	
5	PD	Kent et al., Preparation and properties of tert-butyloxycarbonylaminoacyl-4-(oxymethyl) phenylacetamidomethyl-(Kel F-g-styrene) resin, an insoluble, noncrosslinked support for solid phase peptide synthesis, <i>Israel J. Chem.</i> 17: 243-247 (1978)	
5	PE	Kozak, Structural Features in Eukaryotic mRNAs that Modulate the Initiation of Translation <i>The Journal of Biological Chemistry</i> 266:19867-19870 (1991)	
5	PF	Kröger et al., "A new calcium binding glycoprotein family constitutes a major diatom cell wall component", <i>EMBO</i> 13:4676-4683 (1996)	
5	PG	Kröger et al., "Frustulins: domain conservation in a protein family associated with diatom cell walls", <i>Eur. J. Biochem.</i> 239:259-264 (1996)	
5	PH	Lin et al., "Modified RNA sequence pools for <i>in vitro</i> selection", <i>Nucl. Acids Res.</i> , 22(24):5229-5234; (1994)	
5	PI	Liposome Technology, Targeted Drug Delivery and Biological Interaction, vol. III, G. Gregoriadis (ed.), CRC Press, Inc. (1984) Table of Contents	
5	PJ	Mahan et al., "Phase Change Enzyme Immunoassay", <i>Anal. Biochem.</i> , 162:163-170; (1987)	
5	PK	Mengeling et al., A microplate assay for analysis of solution-phase glycosyltransferase reactions: Determination of kinetic constants, <i>Anal. Biochem.</i> 199:286-292 (1991)	
5	PL	Millon et al., "Synthesis of a new reagent, ethyl 4-azidobenzoylaminoacetimidate, and its use for RNA-protein cross-linking within <i>Escherichia coli</i> ribosomal 30-S subunits", <i>Eur. J. Biochem.</i> 110:485-492 (1980)	
5	PM	Molecular Biology of the Gene, 4th Edition, 1987, ed. Watson et al. The Benjamin/Cummings Pub. co. Pg 224	

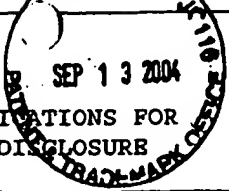
EXAMINER	DATE CONSIDERED
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FORM PTQ-1449 (Modified)		ATTY. DOCKET NO. 24729-0128	SERIAL NO. 09/808,898
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT			
		APPLICANT BRYAN et al.	
		FILING DATE March 15, 2001	GROUP 1642
5	PN	Mosbach, AMP and NAD as 'general ligands', Affinity Techniques. Enzyme Purification: Part B. Methods in Enzymology, Vol. 34, W. B. Jakoby, et al. (eds.), Acad. Press, N.Y. (1974)	
5	PO	Mosbach et al. Immobilization of enzymes to various acrylic copolymers. Methods in Enzymology 44:53-65 (1976)	
5	PP	Mosbach et al. Immobilized coenzymes. Methods in Enzymology 44:859-887 (1976)	
5	PQ	Mosbach, K and Mattiasson, B. Multistep enzyme systems. Methods in Enzymology 44:453-478 (1976)	
5	PR	Mosbach, K. Immobilized Enzymes. Methods in Enzymology 44:3-7 (1976)	
5	PS	Nakamura et al., DNA Sequence of the Gene for the Outer Membrane Lipoprotein of E. coli: an Extremely AT-Rich Promoter, Cell 18:1109-1117 (1979).	
5	PT	Needleman et al., "A General Method Applicable to the Search for Similarities in the Amino Acid Sequence of Two Proteins", J. Mol. Biol., 48:443-453; (1970)	
5	PU	Nogady, Medicinal Chemistry, A Biochemical Approach, Oxford University Press, New York pp. 388-392.	
5	PV	Ozato et al., Production of transgenic fish: introduction and expression of chicken α -crystalline gene in medaka embryos, Cell Differ. Devel. 19:237-244 (1986)	
5	PW	Pagratis et al., "Potent 2'-amino-, and 2'-fluoro-2'-deoxyribonucleotide RNA inhibitors of keratinocyte growth factor", Nature Biotechnol., 15:68-73; (1997)	
5	PX	Pearson et al., "Improved tools for biological sequence comparison", Proc. Natl. Acad. Sci. U.S.A., 85:2444-2448; (1988)	
5	PY	Peffer et al., "Strand-invasion of duplex DNA by peptide nucleic acid oligomers", Proc. Natl. Acad. Sci. U.S.A. 90:10648-10652 (1993)	
5	PZ	Pierce Catalog, pp. T123-T154, 1994	
5	QA	PIERCE Catalog & Handbook, pp. O90-O110, T155-T200 (1994)	
5	QB	PIERCE CATALOG, ImmunoTechnology Catalog & Handbook (1992-1993)	
5	QC	Sambrook et al., Molecular Cloning, 2nd ed., Cold Springs Harbor Laboratory press, New York (1989).	
5	QD	Sanger et al., DNA sequencing with chain-terminating inhibitors, Proc. Natl. Acad. Sci. USA 74(12):5463-5467 (1977).	
5	QE	Schwartz and Dayhoff, eds., Book: #23 "Matrices for Detecting Distant Relationships", Atlas of Protein Sequence and Structure, National Biomedical Research Foundation, pages 353-358; (1979)	
5	QF	Sequence Analysis in Molecular Biology, Book: von Heijne, Academic Press, Inc., (1987)	
5	QG	Sequence Analysis Primer, Book: Gribskov M. and Devereux J., eds., Stockton Press, New York; (1991)	
5	QH	Smith et al., "Comparison of Biosequences", Adv. Appl. Math., 2:482-489; (1981)	
5	QI	Stewart and Young, Laboratory techniques in solid phase peptide synthesis, Solid Phase Peptide Synthesis, 2d Ed., Pierce Chemical Co., pp. 53-73 (1984)	
5	QJ	Studier et al. Use of T7 RNA Polymerase to Direct Expression of Cloned Genes Methods in Enzymology 185: 60-89 (1990)	
5	QK	Thorpe et al., "New Coupling Agents for the Synthesis of Immunotoxins Containing a Hindered Disulfide Bond with Improved Stability in Vivo", Cancer Res., 47:5924-5931; (1987)	
5	QL	Tomme et al., Cellulose-Binding Domains: Classification and Properties, American Chemical Society pp.142-163 (1995).	
5	QM	Travis, J., X-rays speed healing of rat spinal cords, Science News 150:214, (1996)	
5	QN	Urlaub et al., Effect of Gamma Rays at the Dihydrofolate Reductase Locus: Deletions and Inversions, Somatic Cell and Molecular Genetics 12(6):555-566 (1986).	
5	QO	Walden et al., "Major Histocompatibility Complex-Restricted and Unrestricted Activation of	

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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

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FORM PTO-1449 (Modified)				ATTY. DOCKET NO. 24729-0128	SERIAL NO. 09/808,898
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT					
				APPLICANT BRYAN et al.	
				FILING DATE March 15, 2001	GROUP 1642
		Helper T Cell Lines by Liposome-Bound Antigens", <i>J. Mol. Cell. Immunol.</i> , 2:191-197; (1986)			
5	swl	QP	Wang et al. Implications for bcd mRNA localization from spatial distribution of exu protein in <i>Drosophila</i> oogenesis <i>Nature</i> 369:400-403 (1994)		
5		QQ	Wawrzynczak et al., "Molecular and biological properties of an abrin A chain immunotoxin designed for therapy of human small cell lung cancer", <i>Br. J. Cancer</i> , 66:361-366; (1992)		
5		QR	Wellhöner et al., "Uptake and Concentration of Bioactive Macromolecules by K562 Cells via the Transferrin Cycle Utilizing an Acid-labile Transferrin Conjugate", <i>J. Biol. Chem.</i> , 266(7):4309-4314; (1991)		
5	swl	QS	Wu et al. Resonance Energy Transfer: Methods and Application <i>Analytical Biochemistry</i> 218:1-13 (1994)		

Title: RENILLA RENIFORMIS FLUORESCENT PROTEINS, NUCLEIC ACIDS ENCODING THE FLUORESCENT PROTEINS AND THE USE THEREOF IN DIAGNOSTICS, HIGH THROUGHPUT SCREENING AND NOVELTY ITEMS

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